

A2  
and Wing, genome.clemson.edu/protocols2-nj.html July, 1998). A pBACwich system has been developed to achieve site-directed integration of DNA into the genome. A 150 kb cotton BAC DNA is reported to have been transferred into a specific *lox* site in tobacco by biolistic bombardment and *Cre-lox* site specific recombination.

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***In the Claims:***

Please amend the claims as follows:

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- A3
1. (Once amended) A substantially purified nucleic acid molecule that comprises a nucleic acid sequence of SEQ ID NO: 1.
  2. (Once Amended) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a *Cyanidium caldarium* protein or fragment thereof.
  3. (Once amended) A substantially purified homologue of a *Cyanidium caldarium* protein or fragment thereof encoded by a nucleic acid molecule that comprises a nucleic acid sequence of SEQ ID NO: 1.
  4. (Once amended) A transformed cell having a nucleic acid molecule which comprises:
    - (A) an exogenous promoter region which functions in said cell to cause the production of a mRNA molecule; which is linked to
    - (B) a structural nucleic acid molecule, wherein said structural nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 1; which is linked to
    - (C) a 3' non-translated sequence that functions in said cell to cause termination of transcription and addition of polyadenylated ribonucleotides to a 3' end of said mRNA molecule.
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